

DC Brushless Fan Motor Drivers

Three-Phase Full-Wave Fan Motor Driver


BH67172NUX

General description

BH67172UX is a three-phase sensorless fan motor driver used to cool off notebook PCs. It is controlled by a variable speed provided through the PWM input signal. Its feature is sensorless drive which doesn't require a hall device as a location detection sensor and motor downsizing can be achieved by limiting the number of external components as much as possible. Furthermore, introducing a direct PWM soft switched driving mechanism achieves silent operations and low vibrations.

Features

- Speed controllable by PWM input signal
- Sensorless drive
- Soft switched drive Quick start
- Power save function
- Internal RNF resistance
- Quick start function

Application

- Small fan motor notebook PCs etc.

Package

VSON010X3030

W (Typ.) x D (Typ.) x H (Max.)

3.00mm x 3.00mm x 0.60mm



Absolute maximum ratings

Parameter	Symbol	Limit	Unit
Supply voltage	VCC	-0.3~6.5	V
Power dissipation	Pd	464 ^{*1}	mW
Operating temperature	Topr	-25 to +95	°C
Storage temperature	Tstg	-55 to +125	°C
Output current	Iomax	700 ^{*2}	mA
FG signal output voltage	VFG	6.5	V
FG signal output current	IFG	6	mA
Junction temperature	Tjmax	125	°C

*1 Reduce by 4.64mW/°C over Ta=25°C. (On 74.2mm×74.2mm×1.6mm glass epoxy board)

*2 This value is not to exceed Pd.

Recommended operating conditions

Parameter	Symbol	Limit	Unit
Operating supply voltage range	VCC	1.8 to 5.5	V

Product structure : Silicon monolithic integrated circuit This product is not designed protection against radioactive rays

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